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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/764,809	01/26/2004	Susan M. Coatney	112056-0131	9764	
24267	7590 09/19/2006		EXAM	EXAMINER	
CESARI AND MCKENNA, LLP			WILSON, Y	WILSON, YOLANDA L	
88 BLACK FA BOSTON, M	ALCON AVENUE		ART UNIT	PAPER NUMBER	
D001011, 111	02210		2113		
			DATE MAILED: 09/19/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application	on No.	Applicant(s)				
Office Action Summary		10/764,80)9	COATNEY ET AI	COATNEY ET AL.			
		Examiner	,	Art Unit				
		Yolanda L	Wilson	2113				
Period fo	The MAILING DATE of this communicat or Reply	ion appears on the	cover sheet w	ith the correspondence a	ddress			
WHI(- Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communic. of period for reply is specified above, the maximum statutor to reply within the set or extended period for reply will, I reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THE CERT 1.136(a). In no evolution. The period will apply and will statute, cause the app	IIS COMMUNI ent, however, may a ill expire SIX (6) MON lication to become Al	CATION. reply be timely filed NTHS from the mailing date of this 6 BANDONED (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed o	n 26 January 200	4					
2a)□	This action is FINAL . 2b)⊠ This action is non-final.							
3)								
پ رپ	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disnosit	ion of Claims		a , , , , , , , , , , , , , , , , , , ,	, 0.0.2.2				
· _		: 4 :						
4)(2)	Claim(s) 1-26 is/are pending in the application.							
e/[4a) Of the above claim(s) is/are withdrawn from consideration.							
·	Claim(s) is/are allowed.							
· —								
7)[Claim(s) is/are objected to.			•				
8) Claim(s) are subject to restriction and/or election requirement.								
Applicat	ion Papers							
9)[The specification is objected to by the Ex	xaminer.						
10)	The drawing(s) filed on is/are: a)	accepted or b)	objected to	by the Examiner.				
	Applicant may not request that any objection	n to the drawing(s) b	e held in abeya	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
	e of Draftsperson's Patent Drawing Review (PTO-	948)		s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11/04;07/05;02/05. 5) Notice of Informal Patent Application 6) Other:								
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Art Unit: 2113

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Fujimoto (US Publication Number 20060150035A1). As per claim 1, Fujimoto discloses a method for taking over a failed filer owning disks that store file service data and owning at least one disk that is free of file service data by a clustered partner filer, the failed filer being adapted to perform a coredump in which, in the event of failure, memory contents of the failed filer are transferred to a disk, the method comprising the steps of: changing, by the failed filer, a coredump attribute on the disk that is free of file service data (the "coredump disk") from a non-coredump state to a coredump state and maintaining the coredump attribute on other disks owned by the failed filer in a non-coredump state; writing the memory contents to the coredump disk; identifying, by the clustered partner filer, the coredump attribute of the other disks and taking ownership of the other disks while allowing the failed filer to maintain ownership of the coredump disk; upon completion of the writing of the memory contents, changing the coredump attribute to a non-coredump state; and upon identification of the non-coredump state in

Art Unit: 2113

the coredump attribute of the coredump disk, taking ownership, by the clustered partner filer, of the coredump disk on pages 8 and 9, paragraphs 0110-0112. The non-coredump state is when the coredump disk is not in use.

- 3. As per claim 2, Fujimoto discloses where the coredump disk is a spare disk owned by the failed filer on page 9, paragraph 0111.
- 4. As per claim 3, Fujimoto discloses where the coredump disk is a disk dedicated to a coredump on page 9, paragraph 0111.
- 5. As per claim 4, Fujimoto discloses further comprising the step of creating, from the memory contents written on the coredump disk, a coredump data set for diagnosis of the failing filer and writing the coredump file to the file system root of the failing filer on pages 8 and 9, paragraph 0110.
- 6. As per claim 5, Fujimoto discloses where the step of writing the memory contents includes limiting writing to the coredump disk to a predetermined time limit following a failure event of the failed filer on page 9, paragraph 0114.
- 7. As per claim 6, Fujimoto discloses wherein the predetermined time limit is less than a maximum time a panic of a network communicating with each of the failed filer and the clustered partner filer occurs on pages 8 and 9, paragraphs 0110-0112. It is inherent that processes have a time limit over a network.
- 8. As per claim 7, Fujimoto discloses wherein the step of limiting includes, upon elapsing of the predetermined time limit, changing the coredump attribute of the coredump disk to a non-coredump state on pages 8 and 9, paragraphs 0110-0112.

Application/Control Number: 10/764,809

Art Unit: 2113

9. As per claim 8, Fujimoto discloses wherein the coredump disk and each of the other disks owned by the failed filer include a plurality of predetermined regions including a coredump region and a file system data storage region and wherein the step of writing of the memory contents includes writing the memory contents into the file system data storage region of the coredump disk on page 9, paragraph 0111.

Page 4

- 10. As per claim 9, Fujimoto discloses wherein the coredump region includes a coredump header adapted to store the coredump attribute on pages 8 and 9, paragraph 0110.
- 11. As per claim 10, Fujimoto discloses a first server owning interconnected first storage devices and a second server owning interconnected second storage devices, the first server and the second server being connected together by a cluster interconnect so that the second server can take over ownership of the first storage devices upon failure of the first server; the storage system comprising: a coredump function that (a) causes the first server to write its memory to a coredump storage device chosen from one of the first storage devices in response to a sensed failure of the first server, each of the first storage devices including a coredump attribute (b) causes the attribute of the coredump storage device to be set to a coredump state and the coredump attribute of other of the first storage devices to be set to a non-coredump state; and a takeover function that (a) identifies each of the first storage devices with the coredump attribute set to the non-coredump state, (b) changes of each of the second devices having the coredump attribute set to the non-coredump state from ownership by the first server to ownership by the second server so that takeover of the ownership can

Art Unit: 2113

proceed in parallel with the writing of the memory to the coredump storage device on pages 8 and 9, paragraphs 0108,0110-0112 and page 2, paragraph 0039. The non-coredump state is when the coredump disk is not in use.

- 12. As per claim 11, Fujimoto discloses wherein the takeover function is adapted to cause the second server to logically assume ownership of the coredump storage device after the earlier of either an elapsing of a predetermined time limit or a completion of the writing of the memory to the coredump storage device on page 8 and 9, paragraphs 0108,0110-0112.
- 13. As per claim 12, Fujimoto discloses wherein the coredump function is adapted to cause the coredump attribute of the coredump storage device to be changed to a non-coredump state after either the elapsing of the predetermined time limit or the completion of the writing of the memory to the coredump storage device on pages 8 and 9, paragraphs 0108,0110-0112.
- 14. As per claim 13, Fujimoto discloses wherein the non-coredump state comprises each of an aborted state, a completed state and a non-active state on pages 8 and 9, paragraph 0110-0112. The non-coredump state is when the coredump disk is not in use.
- 15. As per claim 14, Fujimoto discloses wherein the first storage devices each comprise a disk drive engaged in file service activity and the coredump storage device comprises a spare disk that is free of file service activity on page 9, paragraph 0111.
- 16. As per claims 15,23, Fujimoto discloses a first server owning interconnected first storage devices and a second server owning interconnected second storage devices,

Application/Control Number: 10/764,809

Art Unit: 2113

the first server and the second server being connected together by a cluster interconnect so that the second server can take over ownership of the first storage devices upon failure of the first server; the computer-readable medium including program instructions for performing the steps of: writing, by the first server, its memory to a coredump storage device chosen from one of the first storage devices in response to a sensed failure of the first server, each of the first storage devices including a coredump attribute; setting the attribute of the coredump storage device to be set to a coredump state and the coredump attribute of other of the first storage devices to be set to set to a non-coredump state; identifying each of the first storage devices with the coredump attribute set to the non-coredump state; changing of each of the second devices having the coredump attribute set to the non-coredump state from ownership by the first server to ownership by the second server so that takeover of the ownership can proceed in parallel with the writing of the memory to the coredump storage device on pages 8 and 9, paragraphs 0108,0110-0112 and page 2, paragraph 0039. The noncoredump state is when the coredump disk is not in use.

Page 6

- 17. As per claims 16,24, Fujimoto discloses causing the second server to logically assume ownership of the coredump storage device after the earlier of either an elapsing of a predetermined time limit or a completion of the writing of the memory to the coredump storage device on page 8 and 9, paragraphs 0108,0110-0112.
- 18. As per claim 17, Fujimoto discloses causing the coredump attribute of the coredump storage device to be changed to a non-coredump state after either the

elapsing of the predetermined time limit or the completion of the writing of the memory to the coredump storage device on page 8 and 9, paragraphs 0108,0110-0112.

- 19. As per claim 18, Fujimoto discloses wherein the non-coredump state comprises each of an aborted state, a completed state and a non-active state on page 9, paragraph 0111. The non-coredump state is when the coredump disk is not in use.
- 20. As per claim 19, Fujimoto discloses wherein the first storage devices each comprise a disk drive engaged in file service activity and the coredump storage device comprises a spare disk that is free of file service activity on page 9, paragraph 0111.
- 21. As per claim 20, Fujimoto discloses wherein each of the first storage devices includes a coredump information region and a file system region and wherein the memory is written into the file system region of the coredump storage device on page 9, paragraph 0112.
- 22. As per claim 21, Fujimoto discloses the step of creating, with the second server, a coredump data set from the memory written to the coredump storage device, the data set being adapted to enable diagnosis of a fault relative to the first server on page 9, paragraphs 0111,0112.
- 23. As per claim 22, Fujimoto discloses the step of writing the coredump data set by the second server to a file system root of the first server stored on the first storage devices on page 9, paragraph 0112.
- 24. As per claim 25, Fujimoto discloses wherein the step of changing includes setting a reservation on each of second storage devices so as to establish ownership by the second server on page 8, paragraph 0108.

Art Unit: 2113

25. As per claim 26, Fujimoto discloses wherein the reservation comprises a SCSI-3 reservation on page 2, paragraph 0040.

Claim Rejections - 35 USC § 101

26. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 10-14 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. These claims recite 'a coredump function... takeover function...' which merely recite software per se.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yolanda L. Wilson whose telephone number is (571) 272-3653. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on (571) 272-3645. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2113

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Yolanda L Wilson

Examiner Art Unit 2113